Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.



Air Palm Hammer

Table Of Contents

Description

This nailer is designed for framing, decking, joist hanger installation, cross bridging, and fencing. Features include a padded leather cover for user comfort, an offset magnetic nose for easy fastener placement, and a compact design for working in tight applications.

General Safety Information

This manual contains safety, operational and maintenance information. Read this manual and understand all safety warnings and instructions before operating the nailer. Contact your Campbell Hausfeld representative if you have any questions.

MANUAL

OPERATOR'S RESPONSIBILITY:

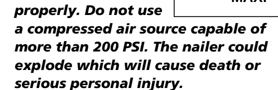
Before operating the nailer, read and understand all safety warnings and labels. Follow the operating instructions outlined in this manual.

EMPLOYER'S RESPONSIBILITY:

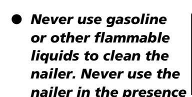
Distribute this instruction manual to all users before allowing use of the nailer. Ensure all operators read, understand and follow all safety warnings, labels and instructions outlined in this manual.

⚠DANGER ***Danger indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.***

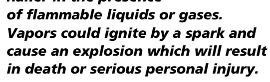
- ***Do not use any type of flammable gases or oxygen as a power source for the nailer. Use filtered, lubricated, regulated compressed air only. Use of a compressed gas instead of compressed air may cause the nailer to explode which will cause death or serious personal injury.***



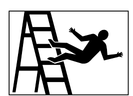
- ***Do not exceed maximum operating pressure of the nailer (125 psi). The nailer will not function properly. Do not use a compressed air source capable of more than 200 PSI. The nailer could explode which will cause death or serious personal injury.***



- ***Never use gasoline or other flammable liquids to clean the nailer. Never use the nailer in the presence of flammable liquids or gases. Vapors could ignite by a spark and cause an explosion which will result in death or serious personal injury.***

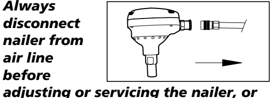


- ***Always remain in a firmly balanced position when using or handling the nailer.***

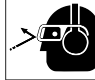


⚠WARNING ***Warning indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.***

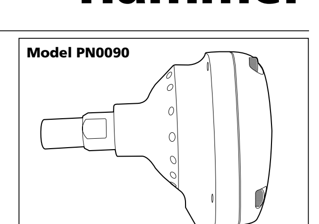
- ***Always disconnect nailer from air line before adjusting or servicing the nailer, or when the nailer is not in use.***



- ***Protect your eyes and ears. Wear Z87 safety glasses, with side shields. Wear hearing protection. Employers and users are responsible for ensuring the user or anyone near the nailer wears this safety protection. Serious eye injury or permanent hearing loss could result.***



Model PN0090



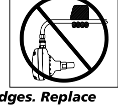
Locate model and serial number on tool and record below:

Model No. ________________________

Serial No. ________________________

Retain these numbers for future reference.

- ***Never carry the nailer by the air hose or pull the hose to move the nailer or a compressor. Keep hoses away from heat, oil and sharp edges. Replace any hose that is damaged, weak or worn. Personal injury or tool damage could occur.***



- ***Do not operate or allow anyone else to operate the nailer if any warnings or warning labels are not legible. Warnings or warning labels are located on the nailer body.***

⚠ WARNING

⚠ WARNING

- ***Do not drop or throw the tool. Dropping or throwing the tool can result in damage that will make the tool unusable or unsafe. If the tool***

Campbell Hausfeld Nailers meet or exceed Industries' Standards as set forth by the American National Standard Institute/International Staple, Nail and Tool Association in ANSI/ISANTA SNT-101-1993.

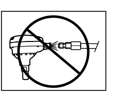
IN268801AV 6/01

has been dropped or thrown, examine the tool closely for bent, cracked or broken parts and air leaks. STOP and repair before using or serious injury could occur.

- ***Avoid long extended periods of work with the nailer. Stop using the nailer if you feel pain in hands or arms.***

⚠CAUTION ***Caution indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury.***

- ***Do not modify or alter the nailer or any nailer parts. Do not use the nailer if any shields or guards are removed or altered. Do not use the nailer as a hammer. Personal injury or tool damage may occur.***
- ***Do not use a check valve or any other fitting which allows air to remain in the nailer. Personal injury may occur.***



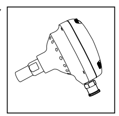
- ***Never place hands or any other body parts in the nail discharge area of the nailer. Use caution when placing a nail in the nail guide. The nailer could eject the fastener causing personal injury.***



- ***Never use the nailer as a toy. Do not engage in horseplay. Always keep others at a safe distance from the work area. Never point the nailer at anyone. Accidental triggering of the nailer could result in personal injury.***
- ***Never leave the nailer unattended or connected to an air compressor when not in use. Personal injury can occur if someone picks up and uses the nailer without knowing the correct way to operate the nailer.***

NOTICE ***Notice indicates important information, that if not followed, MAY cause damage to equipment.***

- ***Inspect the tool daily for loose or broken parts. Do not use the tool until all parts have been tightened or replaced.***



- ***Clean and check all air supply hoses and fittings before connecting the nailer to an air supply. Replace any damaged or worn hoses or fittings. Tool performance or durability may be reduced.***
- ***Air compressors providing air to the nailer should follow the requirements established by the American National Standards Institute Standard B19.3-1991; Safety Standard for Compressors for Process Industries. Contact your air compressor manufacturer for information.***

Operating the Nailer

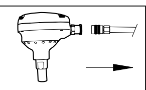
Read this manual and understand all safety warnings and instructions before operating the nailer.

LUBRICATION

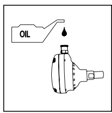
This nailer requires lubrication before using the nailer for the first time and before each use. If an inline oiler is used, manual lubrication through the air inlet is not required on a daily basis.

NOTICE ***The work surface can become damaged by excessive lubrication. Proper lubrication is the owner's responsibility. Failure to lubricate the nailer properly will dramatically shorten the life of the nailer and void the warranty.***

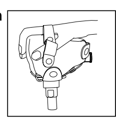
1. Disconnect the air supply from the nailer to add lubricant.



2. Turn the nailer so the air inlet is facing up. Place 4-5 drops of 30 W non-detergent oil into air inlet. Do not use detergent oils, oil additives, or air tool oils. Air tool oils contain solvents which will damage the nailer's internal components.



3. After adding oil, run nailer briefly. Wipe off any excess oil from the exhaust.



Nailer Components and Specifications

- **REQUIRES:** 3.6 SCFM @ 90 psi
- **AIR INLET:** 1/4" NPT
- **NAIL SIZE RANGE:** 6d to 60d*
- **WEIGHT:** 2 lbs., 14 oz.
- **LENGTH:** 4.5"
- **HEIGHT:** 5"
- **WIDTH:** 3.5"
- **MAXIMUM PRESSURE:** 125 psi
- **PRESSURE RANGE:** 50 - 125 psi

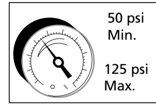
Danger decal
Exhaust
Nose
Nail guide
Air inlet

* Optional accessories are available for finishing nails and larger framing nails.

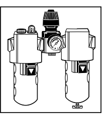
RECOMMENDED HOOKUP

Please refer to Air Tool Set Up (IN170102AV) for system hookup instructions.

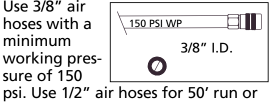
1. The air compressor must be able to maintain a minimum of 50 psi when the nailer is being used. An inadequate air supply can cause a loss of power and inconsistent driving.



2. An oiler can be used to provide oil circulation through the nailer. A filter can be used to remove liquid and solid impurities which can rust or "gum up" internal parts of the nailer.



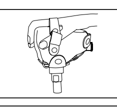
3. Use 3/8" air hoses with a minimum working pressure of 150 psi. Use 1/2" air hoses for 50' run or longer. For better performance, install a 3/8" quick plug (1/4" NPT threads) with an inside diameter of .315" (8mm) on the nailer and a 3/8" quick coupler on the air hose.



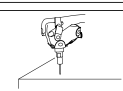
4. Use a pressure regulator on the compressor, with an operating pressure of 0 -125 psi. A pressure regulator is required to control the operating pressure of the nailer between 50 and 125 psi.

Driving a Fastener

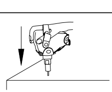
1. Hold tool with nose pointed toward work surface.



2. Align fastener and tool in the location where fastener is to be driven.



3. Push gently against nail head to drive fastener.

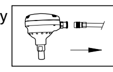


4. Continue to apply pressure until fastener is driven completely or until reaching desired penetration.

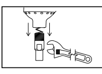
Adjusting the Nail Penetration

Nail penetration can be adjusted on the PN0090 Nailer by installing or removing spacers (Campbell Hausfeld part number SV348700AV - sold separately) located in the nose assembly of the tool. Adding or removing spacers changes the nail penetration by 1/32" per spacer. No more than three spacers should be installed.

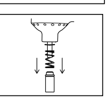
1. Disconnect air supply from tool.



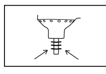
2. Remove the nose from the tool.



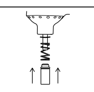
3. Remove nail guide and spring assembly from tool.



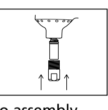
4. Add or remove spacers to achieve desired nail penetration.



5. Replace nail guide and spring assembly on tool.



6. Replace nose over nail guide and secure tightly in place. Nose assembly should be secured with a thread-locking compound prior to assembly.



TECHNICAL SUPPORT

Should you have any questions regarding the operation or repair of this nailer, please call our Nailer Hotline at 1-800-543-6400 for assistance. If you are calling from Ohio or outside of the continental United States, please call collect, 1-513-367-1182.

Replacement Parts

⚠WARNING ***Use only genuine Campbell Hausfeld replacement parts. Never substitute parts. Do not use modified parts or parts which will not give equivalent performance to the original equipment. Tool performance, safety and durability could be reduced. When ordering parts, specify by part number.***

Nailer Repair

Nailer repairs must be performed by qualified and experienced service people ONLY.

Assembly Procedure for Seals

When repairing a nailer, the internal parts must be cleaned and lubricated. Parker O-lube or equivalent must be used on all o-rings. Each o-ring must be coated with O-lube before assembling. A small amount of oil must be used on all moving surfaces and pivots. After reassembling, a few drops of 30W non-detergent oil or equivalent, must be added through the air line before testing.

Troubleshooting Guide



Stop using nailer immediately if any of the following problems occur. Serious personal injury could result. Any repairs or replacements must be done by a Qualified Service Person or Authorized Service Center.

Symptom	Possible Cause(s)	Corrective Action
Air leaking between housing and cap	1. Loose screws in housing 2. Damage to cap gasket	1. Tighten screws 2. Replace cap gasket
Air leaking through cap exhaust or nose area	Damaged O-rings	Replace O-rings
Nailer not setting fastener completely	1. Nail guide loose 2. Inadequate air flow to nailer	1. Tighten nose guide 2. Check hose, fitting, or compressor
Nailer operates slowly or has loss of power	1. Nailer not lubricated sufficiently 2. Worn O-rings 3. Low air pressure	1. Lubricate nailer 2. Replace and lubricate O-rings 3. Check and adjust pressure

Limited Warranty

1. DURATION: From the date of purchase by the original purchaser as follows: Standard Duty Products - One Year, Serious Duty Products - Two Years, Extreme Duty Products - Three Years.
2. WHO GIVES THIS WARRANTY (WARRANTOR): Campbell Hausfeld / Scott Fetzer Company, 100 Production Drive, Harrison, Ohio, 45030, Telephone: (800) 543-6400
3. WHO RECEIVES THIS WARRANTY (PURCHASER): The original purchaser (other than for purposes of resale) of the Campbell Hausfeld product.
4. WHAT PRODUCTS ARE COVERED BY THIS WARRANTY: Any Campbell Hausfeld nailer, stapler, air tool, spray gun, inflator or air accessory supplied or manufactured by Warrantor.
5. WHAT IS COVERED UNDER THIS WARRANTY: Substantial defects in material and workmanship which occur within the duration of the warranty period.
6. WHAT IS NOT COVERED UNDER THIS WARRANTY:
   A. Implied warranties, including those of merchantability and FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED FROM THE DATE OF ORIGINAL PURCHASE AS STATED IN THE DURATION. If this product is used for commercial, industrial or rental purposes, the warranty will apply for ninety (90) days from the date of purchase. Some States do not allow limitation on how long an implied warranty lasts, so the above limitations may not apply to you.
   B. ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECT, FAILURE, OR MALFUNCTION OF THE CAMPBELL HAUSFELD PRODUCT. Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.
   C. Any failure that results from an accident, purchaser's abuse, neglect or failure to operate products in accordance with instructions provided in the owner's manual(s) supplied with product. Accident, purchaser's abuse, neglect or failure to operate products in accordance with instructions shall also include the removal or alteration of any safety devices. If such safety devices are removed or altered, this warranty is void.
   D. Normal adjustments which are explained in the owner's manual(s) provided with the product.
   E. Items or service that are normally required to maintain the product, i.e. o-rings, springs, bumpers, debris shields, driver blades, fuses, batteries, gaskets, packings or seals, fluid nozzles, needles, sandblast nozzles, lubricants, material hoses, filter elements, motor vanes, abrasives, blades, cut-off wheels, chisels, chisel retainers, cutters, collets, chucks, rivet jaws, screw driver bits, sanding pads, back-up pads or any other expendable part not specifically listed. These items will only be covered for ninety (90) days from date of original purchase. Underlined items have warranty for defects in material and workmanship only.
7. RESPONSIBILITIES OF WARRANTOR UNDER THIS WARRANTY: Repair or replace, at Warrantor's option, products or components which are defective, have malfunctioned and/or failed to conform within duration of the warranty period.
8. RESPONSIBILITIES OF PURCHASER UNDER THIS WARRANTY:
   A. Provide dated proof of purchase and maintenance records.
   B. Deliver or ship the Campbell Hausfeld product or component to the nearest Campbell Hausfeld Authorized Service Center. Freight costs, if any, must be borne by the purchaser.
   C. Use reasonable care in the operation and maintenance of the products as described in the owner's manual(s).
9. WHEN WARRANTOR WILL PERFORM REPAIR OR REPLACEMENT UNDER THIS WARRANTY: Repair or replacement will be scheduled and serviced according to the normal work flow at the servicing location, and depending on the availability of replacement parts.

This Limited Warranty applies in the U.S. and Canada only and gives you specific legal rights. You may also have other rights which vary from state to state or country to country.

Printed in Taiwan